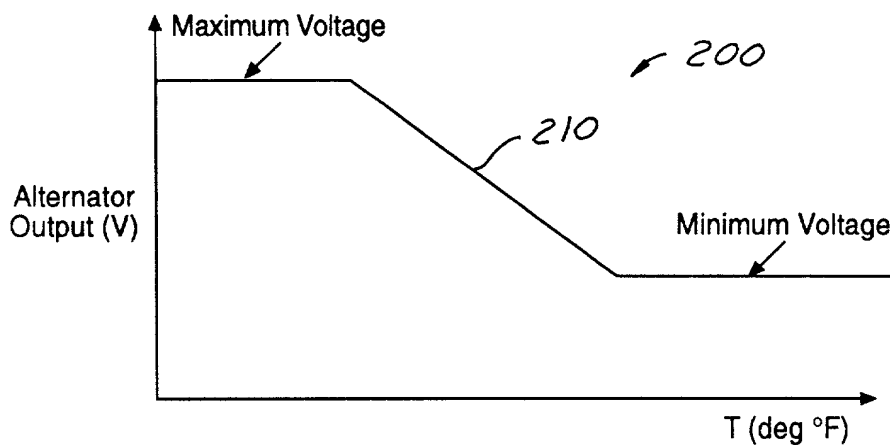


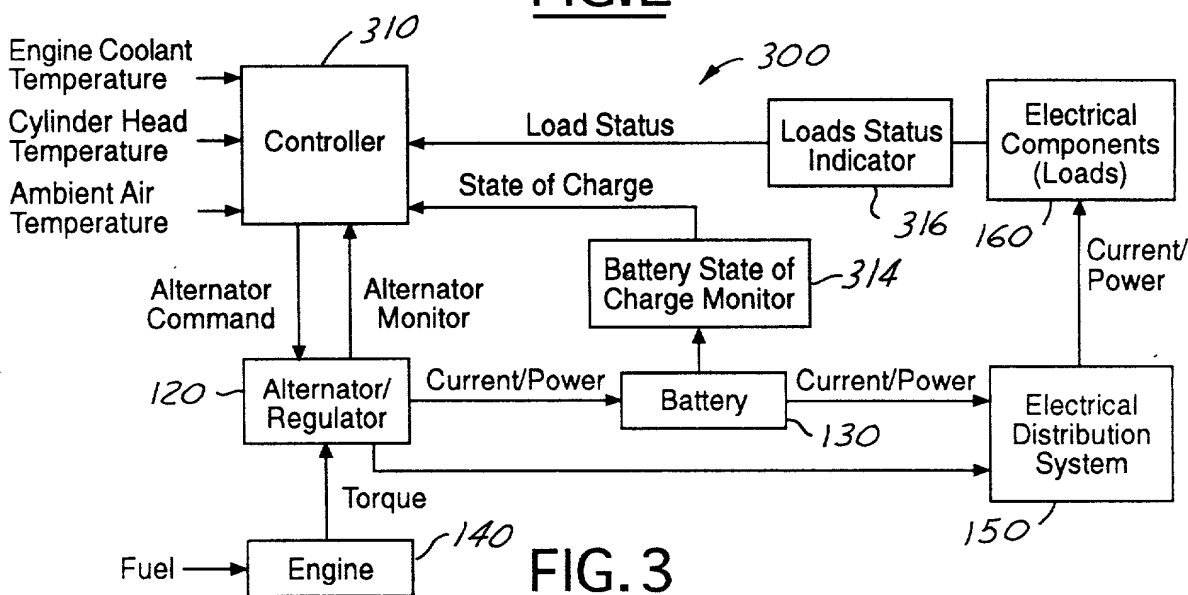
(PRIOR ART)

**FIG. 1**

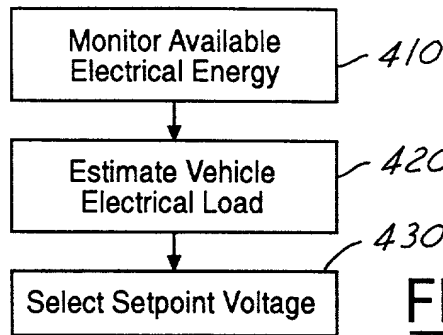


(PRIOR ART)

**FIG. 2**



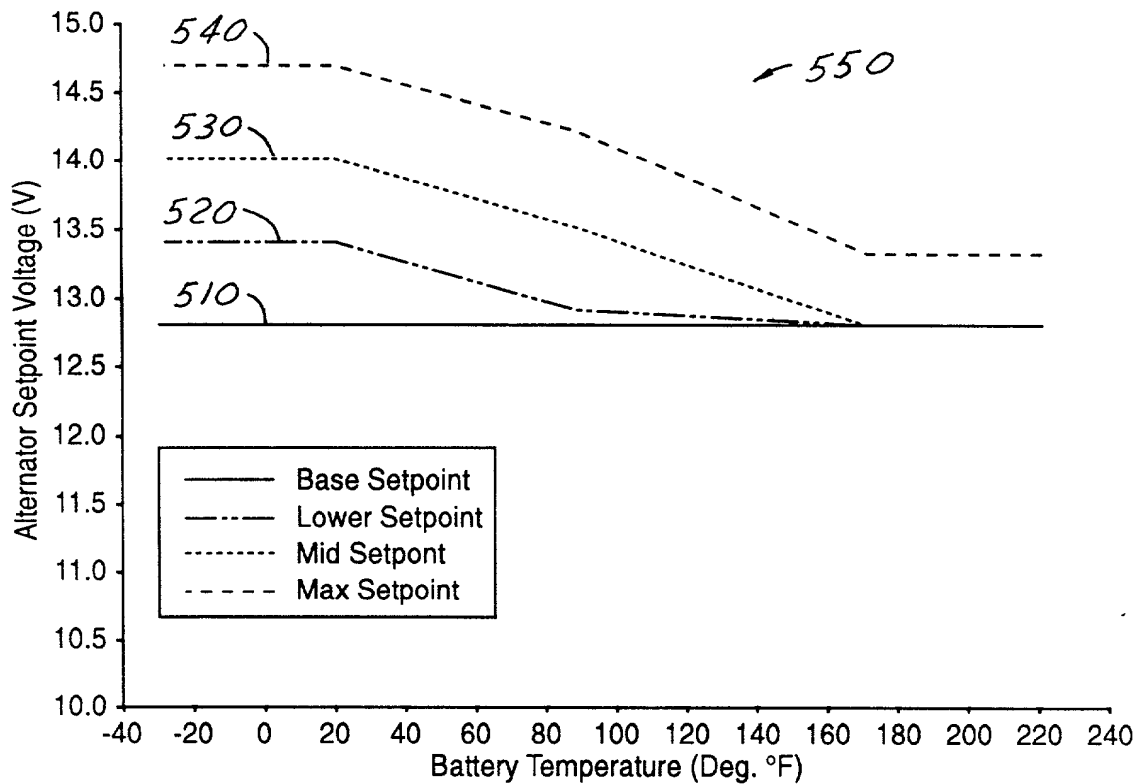
**FIG. 3**



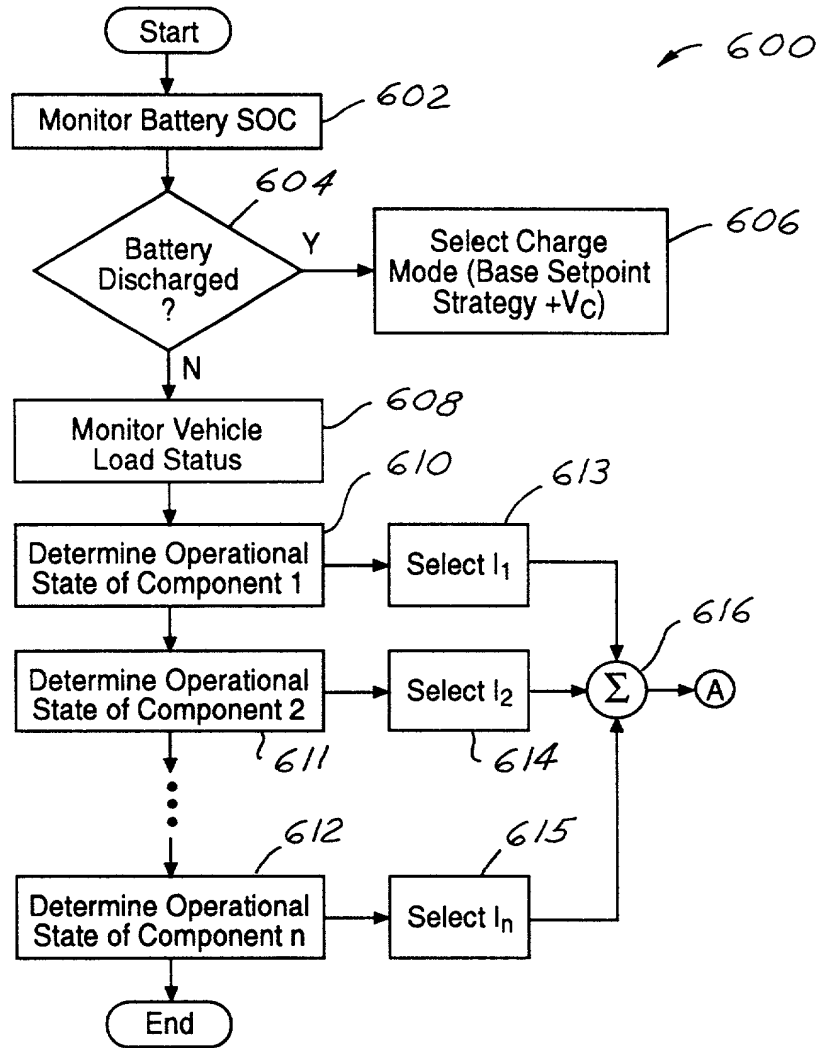
**FIG. 4**

	Load Level 1 (<50A)	Load Level 2 (50-100A)	Load Level 3 (>100A)
SOC <sub>1</sub> (>90%)	Base	Base	Low
SOC <sub>2</sub> (50-90%)	Low	Medium	Medium
SOC <sub>3</sub> (<50%)	Medium	Medium	High

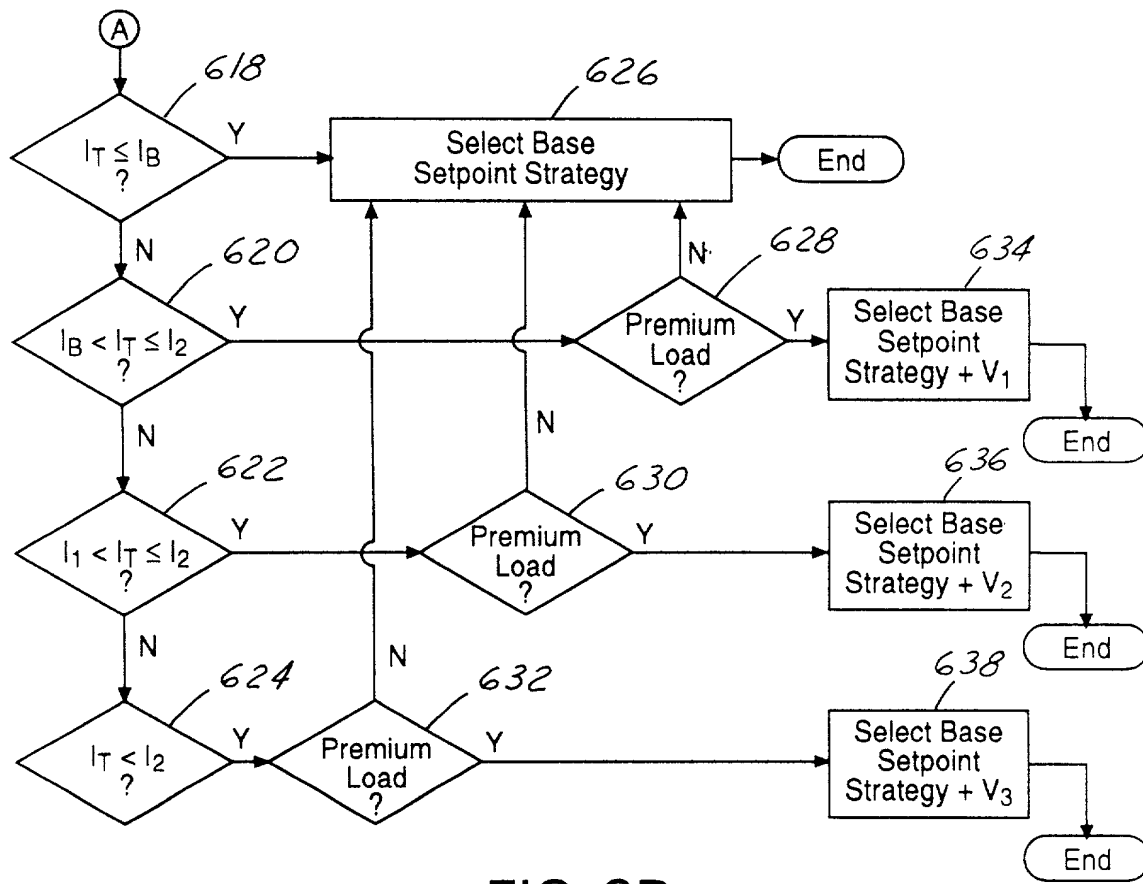
**FIG. 5A**



**FIG. 5B**



**FIG. 6A**



**FIG. 6B**

FIG. 7

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VEHICLE FUNCTION	APPROXIMATE LOAD CURRENTS (Amps)
Electronic Cooling Fan Low	26.22
Electronic Cooling Fan High	38.66
Exterior Lights	4.80
Low Beam Headlights	8.40
High Beam Headlights	1.70
AC Blower High	34.28
AC Blower Medium/High	27.98
AC Blower Medium	23.18
AC Blower Low	19.28
Heater Blower High	29.6
Heater Blower Medium/High	25.00
Heater Blower Medium	21.00
Heater Blower Low	17.7
Rear Defroster	19.58

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FIG. 7

	Load Level 1 < 50A	Load Level 2 50 - 100A	Load Level 3 >100A
Summer Scenario	Base Loads	Base Loads Headlamps Brake Lights	Base Loads Headlamps Engine Cooling Fans A/C Clutch A/C Blower Front High A/C Blower Rear High
Winter Scenario	Base Loads Heater Blower Front Low Brakelights	Base Loads Heater Blower Front High Heater Blower Rear High	Base Loads Headlamps High Beam Brakelights Heated Backlight Heated Blower Front High Heated Blower Rear High Heated Seats High

FIG. 8